

MULTIMEDIA

Master the road, maximise your pleasure.

Clarion's multimedia line-up includes flexible car navigation solutions complemented by a wide array of audio visual capabilities, so the road to your destination will be entertaining. Internet access and wireless connectivity help to create a seamless information and entertainment environment for the road. Come and experience a higher level of digitally driven satisfaction.

Audio

Superb sound

Visual

Exceptional entertainment

Navigation

Quality navigation

Internet

Seamless environment

More choices to match your style

From dedicated car navigation and AV/navigation units, to entertainment-oriented multimedia stations, Clarion offers a diverse line-up to meet the unique needs of your automotive lifestyle.

	Navigation			Multimedia station			Mobile internet navigation device
	NX509E	MAX983HD	MAP790/690	VX709E	VZ709E	VZ509E	ClarionMiND
							
Navigation	Built-in 4 GB Flash memory	Built-in HDD 40 GB memory	Built-in 2 GB memory	Requires optional NP509E navigation unit	Requires optional NP509E navigation unit	Requires optional NP509E navigation unit	Built-in 4 GB Flash memory Built-in 8 GB Flash memory (only 3G model)
SD card	Map updates	Music & "Clarion NAVI manager" PC application	Movie, Music & Pictures	—	—	—	Movie, Music & Pictures
iPod	Via USB *	(With optional CCA692)	—	Via USB *	Via USB *	Via USB *	—
USB memory	Rear USB connection	—	—	Rear USB connection	Rear USB connection	Rear USB connection	2 USB ports (standard / mini)
Bluetooth®	With optional BLT373	With optional BLT583	Built-in Bluetooth	Built-in Bluetooth	Built-in Bluetooth	With optional BLT373	Built-in Bluetooth
AUX input	•	•	—	•	•	•	—
Rear vision camera	•	•	—	•	•	•	—
OEM Remote control	•	•	—	•	•	•	—

* For video playback, optional CCA723 cable required.

Design

Simplified and sophisticated, Clarion's new design features a minimal number of physical keys and a graphical user interface with optimally laid-out on-screen controls. Buttons are thus larger and more ergonomic, while on-screen displays offer the information you need - clearly, intuitively and with a touch of style.

Navigation

Clarion's car navigation line-up includes everything from a hide-away memory navigation unit and portable navigation devices, to all-in-one AV/navigation systems. The latest navigation engine with maps stored on 2 GB- 4 GB flash memory, provide a perfect balance of performance and convenience.

Entertainment

Keep your audience smiling. Certain select models feature visual output for 2-zone entertainment, so rear seat and front seat passengers can view different content during the journey. And with DivX® playback support, you'll be able to enjoy a wider variety of compressed video programmes such as movies.

Sound

Sculpt the sound to match your preference or environment. With Clarion you get great audio features like Beat EQ's 3-band parametric equaliser, BBE® MP to improve the sound of compressed digital audio and Magna Bass EX to boost ultra-low frequencies for a richer sound with more impact - and that's just for starters.

Connectivity

The music you love and carry with you can be enjoyed seamlessly in your car. iPod connectivity gives you full control and complete search functions. Use the USB and AUX connections to access music on portable devices and other external equipment.

Internet

ClarionMiND is a next-generation in-vehicle device that combines GPS navigation with Internet-based entertainment. It enables a whole new style of driving, such as importing navigation destinations directly from Google Maps. Wi-Fi, 3G and Bluetooth® connectivity combines with a touch-panel interface to provide a seamless entertainment and infotainment environment.

Always with you. Navigate your life.

ClarionMiND is a completely new type of mobile internet device created by the car audio and navigation expert Clarion. As a Next Generation Navigation plus Internet-based entertainment device, it provides GPS navigation and Internet access when used in conjunction with a Wi-Fi and Bluetooth-enabled cellphone, or a 3G communication device. The inbuilt web browser enables full desktop interaction with the Internet, anytime and anywhere. ClarionMiND has a revolutionary interface that allows you to navigate the real world and the unlimited possibilities of the Internet by simple touch. The possibilities for ClarionMiND are endless.

Powering ClarionMiND: the mighty Intel® Atom™ Processor

ClarionMiND is powered by Intel's smallest processor – the Intel® Atom™ Processor – which packs an astonishing 47 million transistors. Despite its small size, it is powerful enough to deliver a full range of Internet services and many useful applications.



ClarionMiND



Who says you can't have the best of all worlds? Now you can, in a device containing all the media programmes you need that can be taken with you and used anywhere. Whether it's the Internet, navigation, music, video, photographs or file management, ClarionMiND works for you – anywhere. The information world just got a whole lot bigger. Your world just expanded with ClarionMiND. The dream of a super-mobile multimedia device is now a reality.

Navigation

- Fully fledged navigation
- Europe maps included (42 countries)
- Google based POI search

Communication

- Email
- Full Internet
- Virtual keyboard

Entertainment

- Direct access to YouTube
- Real Player for audio & video
- Photo browser

ALL-IN-ONE DEVICE



Mobile

- Powerful but compact
- Light device
- High-visibility WVGA screen

My Life

- Direct access to MySpace
- Weather information
- Newsreader

Digital Television

- Enjoy free TV with DVB-T technology

Connect your life

Today's intensive lifestyle often requires frequent interaction with colleagues, friends and relatives. Everybody shares information not only for business use, but also personal data, such as photos, links to personal web sites and other community-related networks. ClarionMiND opens doors to this new way of life, of staying connected all the time. Using a Wi-Fi and Bluetooth-enabled mobile phone, or a 3G communication device, it connects you to the world around you, day and night, at home and abroad.



Choose the way to access your digital world.



Black (NR1EB/NH1EB)

NR1E

The NR1E enables Wi-Fi reception whenever you are located in a hotspot area.



White (NR1EW/NH1EW)

NH1E (3G model)

The NH1E has a built-in 3G communication device to enjoy permanent Internet access.



Red (NR1ER/NH1ER)

Full Internet experience



Browser

Using the Firefox-based Web browser, you can navigate the Web. Find where you want to go, such as restaurants, concert venues and shops, by checking the information on the Internet.



Full-Internet Browser

YouTube

The YouTube icon on the Home Screen gives you one-touch access to one of the world's most popular Websites without activating the browser. Now you can enjoy videos both inside and outside your home via the YouTube portal, which is easy to view and operate.



YouTube

MySpace



Use the MySpace icon to go directly to this popular social networking website. You can receive emails or blog update messages anytime, allowing you to stay connected with your friends.



MySpace

Music Sync



Clarion's Music Sync function is an extremely convenient way to access your music library from any location in the world. This audio streaming and download utility allows you to securely store favourite albums on a remote off-board server for later use - known as, Music Locker ClarionMiND Edition. This web-based music management player allows you to stream playlists to your ClarionMiND or to download albums to the SSD/microSD cards or USB memory.



Music Sync



Music Locker ClarionMiND Edition

<http://my.clarion.com>

User Portal

Upgrade, get software and more at "MyClarion"



One of the best features of ClarionMiND is that you can continually upgrade and extend its capabilities. Just use the Internet connection to go to the Clarion portal site, "MyClarion." This information hub is packed full of great contents like software updates, music downloads, partner site links and more!

Next-generation navigation

Unprecedented integration of Internet and navigation

The Internet is a boundless source of information. ClarionMiND integrates Internet-based point-of-interest information with GPS-based car navigation in a single, seamless system. Cyberspace merges with the road ahead — take the express lane to the future with ClarionMiND.

Navigation

ClarionMiND is a fully-fledged navigation system that guides you accurately to your destination. It offers ease of operation along with a highly visible display that only a leading expert of mobile navigation and entertainment products can provide. Let ClarionMiND navigate you to your destination and provide a stress-free driving experience.



2D Maps



3D Maps

The next turn direction and distance to the junction are displayed in the top left section of the screen. When you approach an intersection, the top of the screen shows the street name while voice guidance provides clear instructions in your choice of language.

Map data included

● Map coverage:

Albania, Andorra, Austria, Belarus, Belgium, Bosnia-Herzegovina, Bulgaria, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Gibraltar, Great Britain, Greece, Hungary, Ireland, Italy, Latvia, Liechtenstein, Lithuania, Luxembourg, Macedonia, Moldova, Monaco, Montenegro, the Netherlands, Norway, Poland, Portugal, Romania, Russia, San Marino, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland

● Navigation languages (text messages):

Czech, Danish, Dutch, English (UK), English (US), Finnish, French, French (Canadian), German, Hungarian, Italian, Norwegian, Polish, Portuguese, Spanish, Spanish (Mexican), Swedish, Turkish

Google Maps

Send POIs from Google Maps

Use your ClarionMiND to find the optimum route to destinations you set using Google Maps. Once you have obtained necessary site information from Google, send it to ClarionMiND, then navigate directly to your destination.



Local Search from Google Maps

You can search the huge Google Maps database for POIs near your current location, your targeted destination, or in any specified area. This gives you access to more POIs, making trips more interesting and fun.



User interface



ClarionMiND provides an intuitive H.M.I. (Human Machine Interface). The graphics for the buttons and layout, map design and menus are designed to provide excellent visibility to allow safe operation of the touch screen.



Mobile mode

The icon layout can be switched between Slide View and Carousel View, and the icon arrangement order and categories can be changed as well. Enjoy faster access by grouping and displaying the function icons used most often.



Slide view



Carousel view

Car mode

The special Car Mode interface was designed specifically for safety whilst driving. Installing the standard cradle (included) or Car Dock (sold separately) allows the navigation to start up automatically and switch to a screen that only focuses on features which are needed while the vehicle is moving.



ClarionMiND in detail



● ClarionMiND basics

- 4.8-inch WVGA (800 × 480) LCD display with touch screen
- Intel®Atom™ processor • 800 MHz clock speed
- 512 MB DRAM • 4 GB Solid State Drive flash memory (only for NR1EB/R/W) • Built-in Wi-Fi (b/g)
- Built-in Bluetooth® 2.0 + EDR • Built-in 32-channel GPS receiver • Rechargeable battery lasts up to 1.5 hours (up to 4.5 hours with optional Large Battery)
- Headphone jack • 2 USB ports (standard / mini)
- microSD card slot • One-touch keys

- Docking station connector • Built-in DVB-T receiver (Digital TV - MPEG2) • Integrated TV antenna
- Stylus pen included • Dimensions: 167.8 (W) × 96.0 (H) × 26.45 (D) mm • Weight: 325 g (with standard battery)

● Only for 3G model (NH1EW/R/B)

- 3G communication module
- 8 GB Solid State Drive flash memory
- Bluetooth hands-free telephone



Car Dock for full car navigation functionality



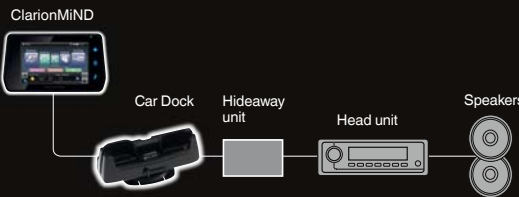
Portable and Dockable

ClarionMiND is a portable device you can use in the home, office or car. Placing it in the optional Car Dock instantly engages the navigation mode so it's ready to guide you to your next destination. The Car Dock also provides RDS-TMC to help you navigate around congested traffic.

Car Dock + Hideaway interface unit

NK1E Car Dock

- Integrated RDS-TMC real time traffic information
- Audio output to car radio
- Navigation voice prompt interrupt
- Easy docking with lock
- Automatic day/night illumination change
- Automatic power on/off linked to the vehicle ignition key position



For more information, see our website at <http://my.clarion.com>

● Colour variations



● Accessories

NK1E Car Dock

With ClarionMiND docked into the NK1E, you can receive traffic information via the RDS-TMC channel, hear voice guidance from your car speakers and get automatic day/night screen switching.



PQE-166 Large Battery

This optional Large Battery extends operating time up to 4.5 hours.*

* While LCD backlight is at minimum brightness



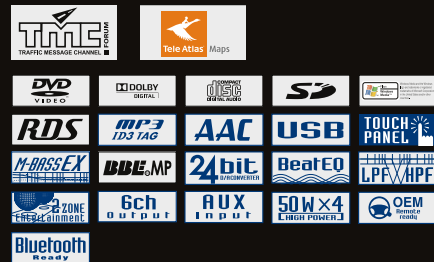
● Package contents



Precise navigation and premier entertainment provide a well-balanced drive



NX509E
2-DIN MULTIMEDIA STATION WITH
7-INCH TOUCH PANEL CONTROL &
BUILT-IN NAVIGATION



Navigation

- 3D display mode for: 3D city maps, 3D landmarks, 3D petrol stations, 3D elevation map • Simple mode / Advanced mode • Free TMC traffic information
- Signpost information • Lane information • Rich POI database • Trip computer • Speed limit information
- Safety camera compatible • 32 programme languages
- Pre-recorded voices for voice guidance: 38 Languages
- TTS Voices: 11 Languages / 21 voices

*Speed camera warning systems may be prohibited in some countries.
*3D information is not available everywhere.



iPod USB Direct for playback through the USB cable provided with your iPod.



USB connector even supports playback of WMA/MP3/AAC files.

NX509E FEATURES

- DVD-Video/DVD±R/DVD±RW/CD-R/RW ready
- Built-in navigation on 4 GB flash memory • SD card slot for navigation map updates • Built-in RDS-TMC tuner • MP3/WMA/AAC compatible with ID3-TAG display • Official DivX® certified product • Plays all versions of DivX video (including DivX 6) with standard playback of DivX media files • 18 FM, 12 MW/LW radio station presets • iPod direct control via USB (requires optional CCA723 cable for iPod video playback) • Rear USB connector • 2 AV inputs • Rear vision camera RCA input, NTSC / PAL compatible • Subwoofer volume control • 24-bit D/A converter • BBE® MP (only for USB function) • Beat EQ for sound adjustment • MAGNA BASS EX • Built-in High Pass Filter & Low Pass Filter • 2-Zone entertainment • Touch panel control • Fully motorised 7-inch QVGA colour LCD monitor • Adjustable display brightness • 6-channel audio pre-out (Front / Rear / Subwoofer) and 2-channel audio output for 2-Zone • 4 x 50 Watt internal amplifier • Bluetooth® interface ready (optional BLT373) • OEM steering wheel remote wired interface capability

New GUI (Graphical User Interface)

The Clarion H.M.I. concept takes a unique form in the NX509E's touch-panel graphical user interface with high-resolution on-screen display. A wide variety of functions, ranging from car navigation to AV entertainment, are consolidated into this intuitive user-interface so there are only 3 physical buttons present on the front panel, contributing to the clean looks of this model. No steep learning curves, so you can fulfill your enjoyment from day one.



Built-in car navigation functions

There's no need to install anything else. With Clarion's NX509E, convenient navigation functions with turn-by-turn instructions are built into the main unit.



SD card for updates

In addition to the built-in data, new maps or updates are made easy to upload through the dedicated SD slot.



Digital media ready (DivX®)

DivX is a common media language that delivers a pure digital experience. Clarion has provided DivX playback on most AV products since 2008. DivX enriched video files deliver superior video quality and allow more information on a single disc. With Clarion you get a whole new experience, full of awesome features and digital delight.

Superior iPod connectivity

iPod direct control via USB

Just connect the USB cable that came with your iPod to the NX509E's rear USB input to control your iPod. Using the optional CCA723 cable will even let you watch iPod Video on the big screen. This same terminal can be used to play digital music stored on any USB memory device.



* To connect an iPod, please use the USB cable provided with your iPod.
* For video playback, optional CCA723 cable required.
* Please see our website for iPod models that can be connected.

iPod ABC search & simple control mode

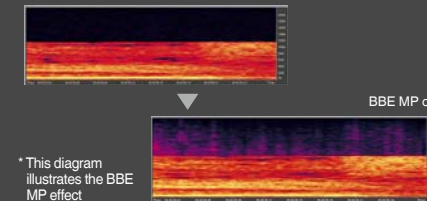
In addition to genre/album/song title browsing, complete iPod ABC Search convenience is provided. Operation is not only limited to the touch panel of your main unit, but you can also use the iPod control wheel to call up music tracks.

iPod ABC search
Press and hold the [DISP] button (1 sec.).



Operations are possible from both the iPod and the main unit.

• BBE MP Process



* This diagram illustrates the BBE MP effect

BBE® MP for better sounding MP3/WMA/AAC files

BBE MP (Minimised Polynomial Non-Linear Saturation) process improves digitally compressed sound such as MP3/WMA/AAC by restoring the harmonics that are lost through compression, thereby reproducing the warmth, details and nuances that you would otherwise miss. BBE MP enhanced harmonics even serve to make regular CDs sound better.

• Manufactured under license from BBE Sound, Inc.
• Licensed by BBE Sound, Inc. under one or more of the following US patents: 5510732, 5736897. BBE and BBE symbol are registered trademarks of BBE Sound, Inc.

Beat EQ with parametric equalisation

In addition to providing 3 preset equalisation patterns, Beat EQ even lets you freely customise the level and range of the bass, midrange and treble portions of each pattern with a 3-band parametric equaliser.

Built-in High Pass Filters and Low Pass Filters

The internal High Pass and Low Pass Filters allow your music to be played at the precise levels that they are meant to be heard. Enjoy bass with more muscle and highs with more clarity.

24-Bit D/A converter

Fully enjoy the sonic impact of DVD movie soundtracks and music videos. 24-bit technology actually oversamples the digital signal, providing excellent results that just weren't possible with older 16-bit systems.



Magna Bass EX

Clarion's renowned Magna Bass EX boosts the bass by nearly 10 dB at even lower frequencies around 50 Hz —lower than that of ordinary loudness circuits at around 100 Hz — to provide extra low frequency impact. It even automatically compensates the volume level to ensure well-balanced dynamic bass at any level.



2-Zone entertainment

This separates the in-car environment into two discrete zones, allowing rear seat passengers to enjoy a DVD movie or iPod Video while the front seat passengers can enjoy their favourite radio station or music from a USB memory device.

* USB and iPod cannot be played back at the same time.

Dedicated rear vision camera cinch input

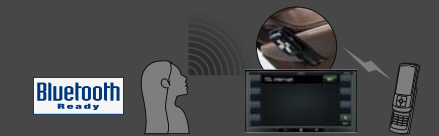
A dedicated rear vision camera input is equipped, so that you may install an optional camera enabling you to see the area behind your vehicle. The increased view encourages and facilitates safer driving. (optional CCA185 required)

OEM steering wheel remote control compatible

Many cars are sold with car radios that can be operated using your car's convenient steering wheel controls. Clarion's adaptors enable you to upgrade your factory-installed radio by installing a new sleek Clarion system in your car and control it with the existing steering wheel controls.

Bluetooth® ready with BLT373

Hands-free conversations (HSP/HFP) on Bluetooth ready mobile phones promote safe driving. This is possible via wireless connection of the phones to your vehicle's audio system. With the A2DP, Advanced Audio Distribution Profile, you can enjoy music reproduction from many new mobile phones or portable media players and control them via AVRCP (Audio Video Remote Control Profile).

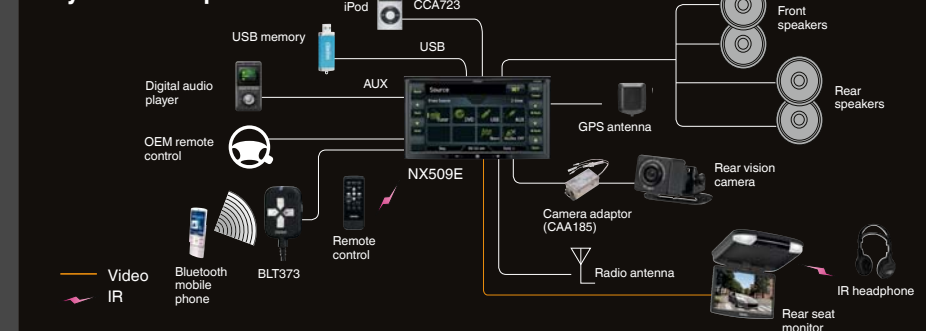


6-channel audio pre-out

The pre-out lets you freely add external power amplifiers to create a more powerful, sophisticated audio system.



System example



Navigate your way with an enhanced sense of reality

Clarion car navigation appeals to your senses to provide more effective guidance. Visually the 3D rendered graphics help place you in the real-world driving environment more effectively. Aurally the text-to-speech function offers voice assistance so even first-time users will have an easy time reaching their destinations.



Smart, simple and direct control on touch-panel display



Smart touch-panel controls enable you to access information at the touch of a fingertip. Layouts are devised to enable instantaneous display of desired information, while detailed information can easily be called up with a light touch.

Rich POI database



The POI content database offers access to just about any point of interest in your surroundings. In addition to petrol stations and tourist information offices, you can look up the closest ATM, swimming pools, specific business areas and much, much more... Needless to say, you can also search for any POI by its name. Last but not least, you can use "My POI" zone to create your own POI favourites file.

Text to speech



One step closer to clear and safe driving. While streets are displayed on the screen, the voice guidance tells you their actual name. Also, the system is able to tell you the direction to take, exactly like a passenger would do! For example, if you drive in Paris, you would hear "... After 100 m, turn left onto Rue Washington..."

RDS-TMC traffic information



Receive instant traffic information updates through the built-in TMC receiver. The NX509E / NP509E can receive toll-free traffic information (TMC). You are always informed whenever new information is broadcast.

Sophisticated and efficient navigation graphics

Elevation information on the road network is used to draw roads and bridges in a realistic way, so you won't get "lost" at complex intersections. When travelling on a motorway, the system shows which lanes allow you to exit and which ones continue ahead, so you won't miss an exit road. Buildings close to you are drawn as transparent objects to avoid obstructing the next intersection, while buildings further away are textured and easily recognisable.



Roads, junctions and bridges with elevations



Lane information



Signposts information

Elevation modelling and 3D rendering for a realistic view



Topographical view



Modelling terrain in 3D

Comprehensive digital elevation model data is used to draw height and depth features for a realistic landscape at all levels of zoom. While driving, hills and mountains are rendered in 3D to better represent your real world driving environment. 3D landmark data is integrated seamlessly into the graphical rendering in 3D mode, and it does not block the view of POIs and other useful information on the map.



3D landmarks

Fully customisable



View height and angle is completely adjustable to user preference



The system is completely flexible to any user preference. Not only scale or day/night illumination, but also 2D/3D, elevation, route information, display of POIs icons, route details and many others are easily adjustable.

44 countries map coverage for NX509E / NP509E

Albania, Andorra, Austria, Belarus, Belgium, Bosnia-Herzegovina, Bulgaria, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Macedonia, Malta, Moldova, Monaco, the Netherlands, Norway, Portugal, Poland, Romania, San Marino, Serbia, Montenegro, Slovakia, Slovenia, Spain, Gibraltar, Sweden, Switzerland, Liechtenstein, Turkey, Ukraine, United Kingdom, the Vatican

Clarion's line of car navigation solutions meets a wide range of requirements

NP509E HIDE-AWAY MEMORY NAVIGATION SYSTEM



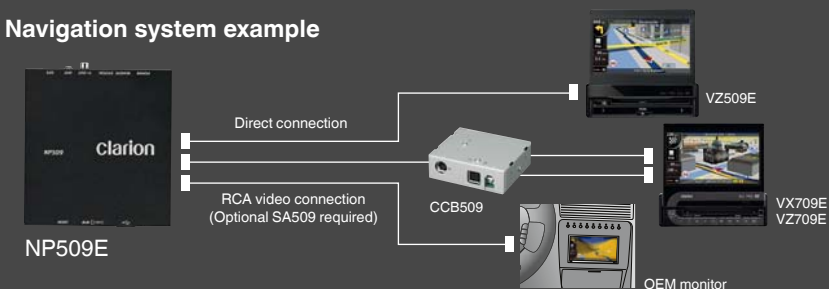
- Direct connection with VZ509E
- VX709E/VZ709E requires CCB509 interface
- System integration: Touch screen operation, AV interruption, navigation voice guidance and audio mix
- Stand-alone mode available (optional SA509 required)
- Stand-alone mode optimised user interface with drop down menu for remote control operation
- Built-in 4GB flash memory for navigation
- SD card slot for map updating
- SIRF III GPS module with 20-channel receiver
- Built-in RDS-TMC tuner
- No speed pulse connection required
- Navigation: please refer to the navigation features for NX509E

SA509 STAND-ALONE ACCESSORY KIT FOR NP509E

- IR remote control and remote eye
- External speaker for voice guidance
- RCA video cable



Navigation system example



CCB509 CeNET CONVERTER FOR NP509E



CeNET converter box to connect NP509E with VX709E, VZ709E, VRX888RBT, MAX688RBT, VRX878RVD, MAX678RVD, VRX868RVD, MAX668RVD

MAX983HD

HDD NAVIGATION & DVD MULTIMEDIA
STATION WITH 7-inch TOUCH PANEL
CONTROL



- DVD±R/DVD±RW/CD-R/RW ready • MP3/WMA compatible
- 18 FM, 6 MW/LW radio station presets • RDS-EON DSP tuner with variable bandwidth • 24-bit D/A converter • Motorised sloping control panel with 7-inch QVGA TFT colour LCD monitor
- Touch screen operation • 400 MHz CPU • 40 GB hard disk drive • 1 AV input • 1 Video output and 2-channel audio output for 2-Zone • External microphone for voice recognition • CeNET control of TV tuner and Bluetooth interface with optional BLT583
- SD Card slot for MP3/WMA playback and data installation with "Clarion NAVI manager" PC application • Built-in "Music Catcher" with Gracenote® music recognition service • 3-band parametric equaliser • MAGNA BASS EX • 4 x 53 Watt internal MOS-FET amplifier • OEM steering wheel remote wired interface capability • iPod direct connection and control (requires optional cable CCA692) • Rear vision camera input

Clarion's fusion of high-end video and sound with high-performance navigation opens the door to a new era of motoring.



Touch screen operation



*MAX983HD is compatible with MP3/WMA on DVD±R/DVD±RW CD-R/RW media formats. Maximum track capacity: 512 tracks (255 folders with max. 512 tracks per folder). • There is no guarantee that all units in this catalogue can play CCDD (Copy Control CD), Hybrid SACD (Super Audio CD), CD-R/RW and DVD±R/RW. • Please visit our website for iPod compatibility information. • Playlists of mixed music and movie files cannot be played on iPod video compatible units.

MAP COVERAGE

Western Europe: Andorra, Austria, Belgium, Denmark, Finland, France, Germany, Ireland, Italy, Liechtenstein, Luxembourg, Monaco, the Netherlands, Norway, Portugal, San Marino, Spain, Sweden, Switzerland, UK, the Vatican
Eastern Europe: Bulgaria, Croatia, Czech Republic, Estonia, Greece, Hungary, Latvia, Lithuania, Poland, Romania, Slovakia, Slovenia

NAVIGATION

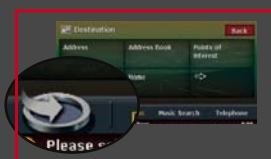
- **Voice recognition and Text to speech:** German, French, UK English, Italian, Spanish, Dutch
- **Voice guidance and Screen text:** English, German, French, Italian, Dutch, Spanish, Portuguese, Swedish, Danish
- **Map scale:** 25m/50m/100m/200m/500m/1km/2km/4km/16km/64km/256km
- **Day/Night map colour change:** automatic and manual • Highway interchange zoom with split screen
- Address search function including house number search, POI search by name, category, nearby POIs, and Full postcode search
- **3D menu:** user's favourite location, frequent location and recent album list.
- **Multiple route calculation:** shortest, fastest, minimise motorways and more detailed settings (toll road, time restriction, avoid area, ferry)
- **Route information:** next manoeuvre, traffic information, guidance information, repeat guidance and display destination • Auto-reroute • Route calculation using traffic information • Pop-up traffic information (Premium TMC service supported) • Speed limit information • Safety camera compatible • Extra POI compatible • Route guidance: estimated time of arrival, road name of next manoeuvre, manoeuvre display, crossing zoom • Turn list mode
- **Store location and edit location:** maximum 200 points
- **User profile function:** items can be stored for 4 different users

Register up to 16 icons for each of the three spinning rings.

This new style of 3D menu features three genres of menu rings: Favourite, Frequent, and Recent Album. Call up the contents you want or destinations from the menu rings floating in a graphical 3D space.

- Favourite List** Customise and register destinations from the Frequent menu.
- Frequent List** Places you often visit are automatically registered.
- Recent Album** Songs you have recently listened to are automatically registered.

Touch the icon on the menu screen to display the menu ring screen.

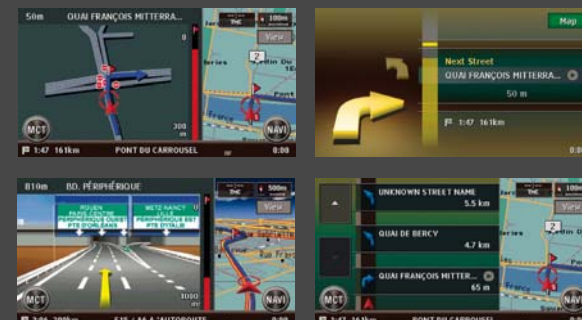


Touch the camera icon to switch to the base screen (overview screen) display.



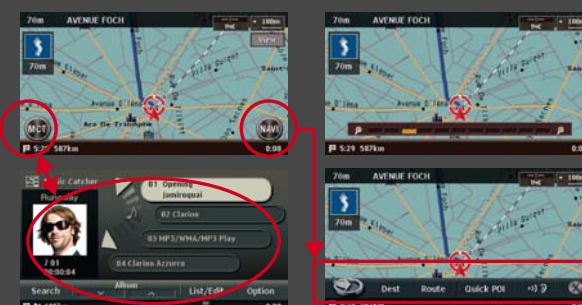
Edit the Favourite List menu by dragging and dropping the spots you may visit again from the locations automatically registered in the history.

Guidance screen



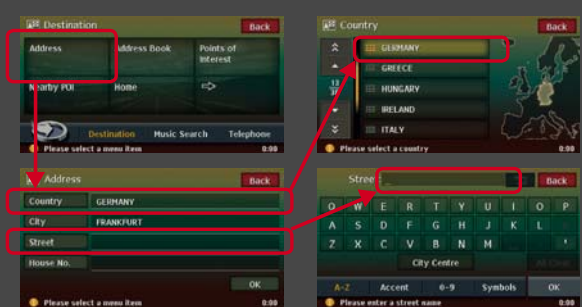
You can programme the screen to automatically zoom in at crossings, roundabouts and intersections where it is easy to get lost. The intersection illustration uses a 3D display that mirrors the road layout and information signs ahead, which gives the user ultra clear direction. Furthermore, "turn lists" and "turn-by-turn mode" smoothly guide you all the way to your destination.

Smart, simple and direct control on touch-panel display



Smart touch-panel controls enable you to access information at the touch of your fingertip. Layouts are devised to enable instantaneous display of desired information, while detailed information easily can be called up with a touch of your fingertips.

Search screen



A destination can be searched for in various ways and shown on the screen quickly. Searches are possible by known address, either by narrowing down from a country-by-country display or simply by entering the destination with letters and numbers on the address input screen.

Ready for iPod Audio/Video



Ready for CCD rear vision camera



3-band parametric EQ & Magna Bass EX



Changeable skin design



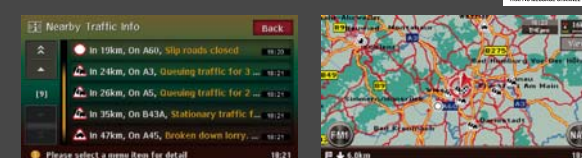
Icons and background patterns can be customised to suit the taste and image of your car. This skin is an original creation for Clarion by Giugiaro Design (Italy). To upgrade your HDD navigation layout, you can download different skin files from www.clarion.com.

Change of map display and split screens



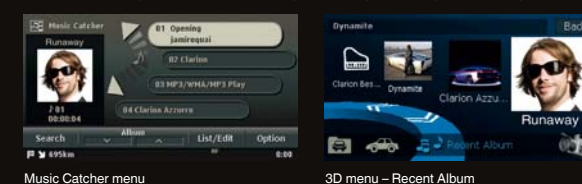
Display screens can be selected from 2D display, 3D display for enhanced recognition, or split-screen displays of 2D + 2D or 2D + 3D. Intelligent guidance is realised by means of showing your car's position on a sub-display with intersection illustrations and signs.

Built-in RDS-TMC tuner



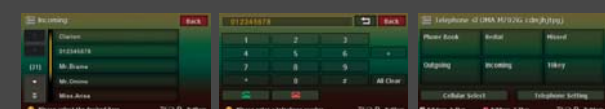
An RDS-TMC tuner is built in. This provides you with timely traffic information collected by the local police, municipalities, etc. and broadcast via the Traffic Message Channel.

Music Catcher: High speed recording and large storage capacity



Music Catcher is a function which enables listeners to store favourite tunes and albums on the built-in hard disk. You can enjoy music from the hard disk by making your own "favourite collection" of songs. • Ripping speed: Maximum 8 times recording • Storage capacity: Maximum 4,000 songs • Ripping format: High quality Atrac 3 / 132 Kbs

Bluetooth® Interface



Hands-free phone conversation via Bluetooth receiver promotes safe driving

The optional Bluetooth interface adapter connects your source unit to Bluetooth-ready mobile phones without wires enabling you to talk hands-free on your phone. When a call is received, music is interrupted and the voice of the caller is heard through the speakers of the car audio system. There is no need to hold the phone, simply talk into the supplied microphone.

BLT583

CeNET BLUETOOTH INTERFACE ADAPTER

- Compatible with MAX983HD, DXZ788RUSB, and DXZ588RUSB • Headset, hands-free profile and object push profile • Controls mobile phone book directly from touch screen: 500 persons, 5 numbers per person* • Displays name / calling number / outgoing calls / missed calls* • Automatic receive function*
- Redial function* • Voice recognition control* • On-screen information of battery level, signal strength*

* Depends on telephone





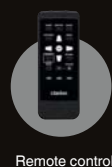
Sophistication is fused with functionality to enhance your mobile experience

VZ709E DVD MULTIMEDIA STATION WITH 7-inch TOUCH PANEL CONTROL



Entertainment-intensive with intuitive interface and 2-DIN format

VX709E 2-DIN DVD MULTIMEDIA STATION WITH 7-inch TOUCH PANEL CONTROL



VZ709E / VX709E FEATURES

- DVD-Video/DVD±R/DVD±RW/CD-R/CD-RW ready
- Built-in Bluetooth® hands-free (HFP & OPP) and audio streaming (A2DP & AVRCP) • MP3/WMA/AAC compatible with ID3-TAG display • Official DivX® certified product • Plays all versions of DivX video (including DivX 6) with standard playback of DivX media files • 24 FM, 16 MW/LW radio station presets
- RDS-EON DSP tuner with variable bandwidth and radio text • Rear USB connector • iPod direct control (optional CCA723 cable required for iPod video playback) • AV input • Dedicated rear vision camera RCA input (NTSC) • Subwoofer volume control
- 3-band parametric equaliser • 24-bit D/A converter
- MAGNA BASS EX dynamic bass enhancement
- Built-in High Pass Filter & Low Pass Filter • Fully

- motorised 7-inch QVGA colour LCD monitor (VZ709E)
- Motorised sloping control panel with 7-inch QVGA colour LCD monitor (VX709E) • Navigation touch panel control (optional NP509E & CCB509 required)
- 6-channel audio pre-out and 2-channel audio pre-out for 2-Zone • 2-Zone entertainment: front and rear separate source control • 4 x 50 Watt internal amplifier
- OEM steering wheel remote interface capability
- Built-in IR Eye (RCB198 remote included) • 4 preset wallpaper designs

*VZ709E / VX709E is compatible with MP3/WMA/AAC/DivX on DVD±R/ DVD±RW/CD-R/CD-RW media formats. Maximum track capacity: 999 tracks (255 folders with max. 255 tracks per folder) *VZ709E / VX709E is compatible with MP3/WMA/AAC on USB. Maximum track capacity: 130,560 tracks (512 folders with max. 255 tracks per folder) *Playlists of mixed music and movie files cannot be played on iPod video compatible units.



Function display screens for full system information



Clarion's in-dash, 7-inch monitor is the source for all media and function information, allowing quick access to a host of features with a simple touch of the on-screen menu. The menu is laid out in an easy-to-understand fashion by displaying all actions related to the selected media source.

CeNET for hide-away navigation connection

The CeNET interface enables connection of the NP509E flash memory navigation system (via optional CCB509 CeNET converter) to the source unit for fully integrated and interactive car navigation.

Built-in Bluetooth® hands-free

With a Bluetooth compatible head unit, you can wirelessly connect your Bluetooth capable mobile phone to listen to calls through your car's audio system. HFP/OPP/A2DP/AVRCP protocols are supported. The mobile phone contacts list can be synchronized with the head unit*. Then you can directly dial the phone number from the multimedia station.

* depends on mobile phone

DivX® compatible

DivX is a common media language that delivers a pure digital experience. DivX enriched video files deliver superior video quality and enables storage of more information on a single disc. DivX compatibility in a source unit means that DivX encoded files burned using a PC can be viewed and enjoyed in your car, just like you'd be able to at home.

iPod direct control via USB

By connecting an iPod to the source unit's USB input using the USB cable provided with your iPod, it will be possible to control the iPod. The same USB terminal can also be used to connect a USB memory device with digital music files stored on it.

- * To connect an iPod, please use the USB cable included with your iPod.
- * For video playback, optional CCA723 cable required.
- * Please see our website for iPod models that can be connected.



Add car navigation functionality any time

Enjoy all the benefits of in-dash car navigation: Programme your destination via the main unit's touch screen, listen to voice guidance via your vehicle's speakers and see your high-resolution map on a huge 7" screen, plus much more.

Navigation control



VZ709E



VX709E

RGB cable included with CCB509

CeNET cable included with CCB509



CCB509

CeNET converter

System cable included with NP509E



NP509E

Hide-away memory navigation system

2-Zone entertainment

Clarion's 2-Zone entertainment system divides the in-car spatial environment into discrete front and rear zones. As a result, it is possible for the front and rear seat passengers to enjoy different entertainment sources without interfering with each other.

Built-in High Pass/Low Pass Filter

The internal High Pass and Low Pass Filters allow you to set the frequency range of the audio signal that's output to each channel to best match the acoustic characteristics of the front and rear speakers and the subwoofer.

3-band parametric equaliser

The entire sound spectrum is separated into high, medium and low ranges. The level of each can be adjusted separately. Customise the sound to suit your taste and your car.

6-channel audio pre-out

Equipped with 6-channel outputs for Front 2 channels + Rear 2 channels + Subwoofer 2 channels and crossover settings for high sound quality reproduction.

24-bit D/A converter for superb sound reproduction

The digital realm is made up of unnaturally square sound waves, as opposed to the smoothly undulating sound waves characteristic of the real-world environment. That is why Clarion's 24-bit D/A (Digital-to-Analogue) converter over-samples the digital signal to recreate the natural nuances and expressions lost during the sound reproduction process.

4 preset wallpaper designs

Background patterns of the navigation system and audio & video sources can be customised to suit your taste or your car's colour scheme.

Dedicated rear vision camera RCA input

A dedicated rear vision camera input is fitted, so that you may install an optional camera enabling you to see the area behind your vehicle. The increased view encourages and facilitates safer driving.

Accessories



RCB199
OPTIONAL EXTERNAL
MICROPHONE
For VRX888RBT,
MAX688RBT,
VZ509E, VZ709E, VX709E,
FZ709E & FZ409E



CCA723
iPod VIDEO CONNECTING
CABLE
For MAX688RBT,
VRX888RBT, NX509E,
VZ509E, VZ709E, VX709E,
FZ709E & FZ409E

Simplified, streamlined, and yet more functionality



Remote control

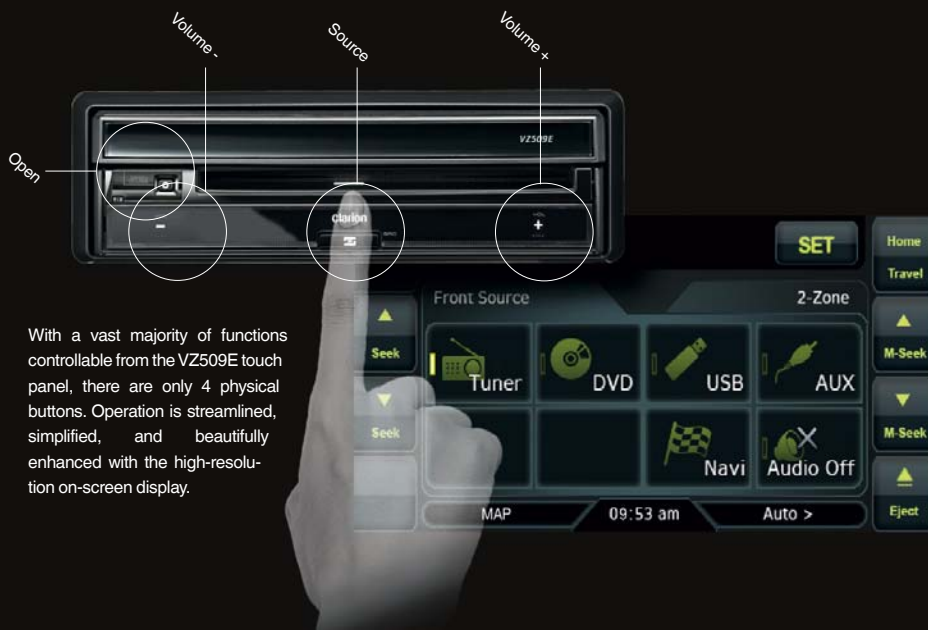
VZ509E
DVD MULTIMEDIA
STATION WITH 7-inch
TOUCH PANEL CONTROL



VZ509E FEATURES

- DVD-Video/DVD±R/DVD±RW/CD/CD-R/RW ready
- MP3/WMA/AAC compatible with ID3-TAG display
- Official DivX® certified product • Plays all versions of DivX video (including DivX 6) with standard playback of DivX media files • 18 FM, 12 MW/LW radio station presets
- iPod direct control (optional CCA723 required for iPod video playback) • Rear USB connector
- Navigation touch panel control (optional NP509E required) • 2 AV inputs • Rear vision camera RCA input, compatible with NTSC and PAL format • Subwoofer volume control • 24-bit D/A converter • BBE® MP for compressed audio sound improvement (only for USB mode) • Beat EQ for sound adjustment • MAGNA BASS EX dynamic bass enhancement • Built-in High Pass Filter & Low Pass Filter • 2-Zone entertainment: front and rear separate source control • Touch panel control (on-screen display) • Fully motorised 7-inch TFT colour LCD monitor • Adjustable display brightness • 6-channel audio pre-out (Front/ Rear/ Subwoofer) and 2-channel audio pre-out for 2-Zone • 4 x 50 Watt internal amplifier • Bluetooth® interface ready (optional BLT373) • OEM steering wheel remote interface capability

New sophisticated GUI (Graphical User Interface)



With a vast majority of functions controllable from the VZ509E touch panel, there are only 4 physical buttons. Operation is streamlined, simplified, and beautifully enhanced with the high-resolution on-screen display.

Navigation touch panel operation

The NP509E hide-away navigation system can be connected to the VZ509E directly via a system cable and controlled through its touch panel with high precision. So with this multimedia station, you can upgrade to a car navigation system simply. Count on voice guidance messages and high-resolution map displays to get you safely to your destination.

Add direct car navigation functionality

Connect the hide-away navigation unit directly to VZ509E and you'll have a car navigation system with total integration including touch panel control and voice guidance announcements.



New graphic IC

By incorporating an integrated video IC, on-screen graphics switch more quickly and smoothly, and usability has been enhanced by allowing touch panel operation even while a video image is being shown in a small window.

Digital media ready (DivX®)

DivX is a common media language that delivers a pure digital experience. Clarion has provided DivX playback on most AV products since 2008. DivX enriched video files deliver superior video quality and allow more information on a single disc. Once again Clarion delivers the features you expect.

Wide-ranging format compatibility

Enjoy a vast selection of movies and music with support of DVD, DivX, as well as MP3, WMA and iTunes AAC data stored on CD or DVD discs.

2-Zone entertainment

This separates the in-car environment into two discrete zones, allowing rear seat passengers to enjoy a DVD movie or iPod video while the driver and front seat passenger can listen to favourite radio stations or music from a USB memory device.

* USB and iPod can not be played back at the same time.

Direct USB iPod control

Just connect the USB cable that's included with your iPod to the Clarion unit's USB input and you get complete control over your favourite music including iPod ABC Search. Depending on your preference, either use the convenient touch screen panel of VZ509E or operate your iPod with the iPod's control wheel. By connecting the iPod to VZ509E via the optional CCA723 cable, it is possible to enjoy iPod Video on the VZ509E's monitor.

* To connect an iPod, please use the USB cable provided with your iPod.
* For video playback, optional CCA723 cable required.
* Please see our website for iPod compatibility information.



New graphic IC



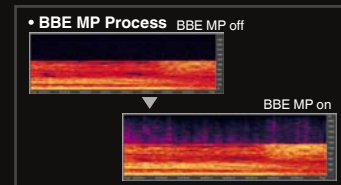
2-Zone entertainment



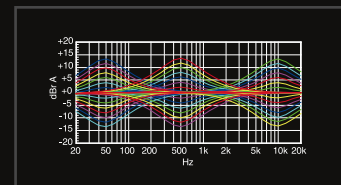
iPod USB direct for playback through USB cable provided with your iPod.



USB connector even supports playback of WMA/MP3/AAC files.



BBE MP Process
* This diagram illustrates the BBE MP effect



Beat EQ



6-channel audio pre-out



Get wirelessly connected using optional BLT373 Bluetooth® transceiver.

BBE® MP for better sounding

MP3/WMA/AAC files

BBE MP (Minimised Polynomial Non-Linear Saturation) process improves digitally compressed sound such as MP3/WMA/AAC by restoring the harmonics that are lost through compression, thereby reproducing the warmth, details and nuances that you would otherwise miss. BBE MP enhanced harmonics even serve to make regular CDs sound better.

• Manufactured under license from BBE Sound, Inc.
• Licensed by BBE Sound, Inc. under one or more of the following US patents: 5510752, 5736897. BBE and BBE symbol are registered trademarks of BBE Sound, Inc.

Beat EQ for user customisable sound

In addition to providing 3 preset equalisation patterns — BASS BOOST, IMPACT, and EXCITE — Clarion's Beat EQ even lets you freely customise the level and range of the bass, midrange and treble portions of each pattern. Depending on your mood and the type of music, you can tune the sound exactly to your liking for a more fulfilling listening experience.

Built-in High Pass Filter & Low Pass Filter

The internal High Pass and Low Pass filters allow you to set the frequency range of the audio signal that's output to each channel to best match the acoustic characteristics of the front and rear speakers and the subwoofer.

24-bit D/A converter

Noise generated by conventional DAC ICs is distributed randomly throughout the frequency spectrum, including the audible range. To circumvent this, Clarion adopts a high-performance 24-bit DAC normally only found in expensive home audio systems. Not only does it cancel out unwanted noise well into the non-audible range, but it also extends the S/N ratio for clearer, more realistic sound.

Magna Bass EX

Clarion's Magna Bass EX boosts the bass by nearly 10 dB at even lower frequencies around 50 Hz — lower than that of ordinary loudness circuits at around 100 Hz — to provide extra-low frequency impact. It even automatically compensates the volume level to ensure well-balanced dynamic bass at any level.

Dedicated rear vision camera RCA input

A dedicated rear vision camera input is equipped, so that you may install an optional camera enabling you to see the area behind your vehicle. The increased view encourages and facilitates safer driving (optional CAA185 required).

6-channel audio pre-out

Equipped with 2 channels for Front (L/R), 2 channels for Rear (L/R), and 2 channels for subwoofers, the full set of RCA line outputs allows upgrading to a full-scale AV system with plenty of support for future system expansions.

For more detailed information concerning installation possibilities, please refer to the CIP (Clarion Installer Programme) on page 34-35



Enjoy home theatre presence in your car

Offering a variety of overhead monitors ranging from 8-inch to 15-inch, with built-in DVD players and wireless headphone transmitters, Clarion can make even your long journeys a pleasure-filled experience.



OHM1088VD
10.2" OVERHEAD MONITOR
WITH DVD PLAYER AND
TWO IR HEADPHONES INCLUDED



- Universal slim profile • MPEG 1/2/4, MP3 and WMA playback • Adjustable display modes: Wide/Normal
- Infrared remote control with on-screen display • 2 Audio/Video inputs for external devices • 1 Audio/Video output for multiple monitor applications • Built-in LED dome light
- 2 sets of headphones are supplied with the OHM1558VD and OHM1088VD, 1 headphone set is supplied with the OHM888VD.



OHM888VD
8" OVERHEAD MONITOR
WITH DVD PLAYER AND
ONE IR HEADPHONE INCLUDED



OHM1588VD
15.4" OVERHEAD MONITOR
WITH DVD PLAYER AND
TWO IR HEADPHONES INCLUDED

"In flight" entertainment for back seat passengers

Clarion also offers a selection of compact monitors that can be installed into the back of the headrest or used as stand-alones, to keep passengers entertained from A to Z and everywhere in between.



VMA773
7"/16:9 HEADREST/
STAND-ALONE MONITOR

- Ultra compact housing for easy headrest installation
- Outside dimension of bracket: 192.7 (W) x 133.5 (H) x 32.5 (D) mm • Dimension of monitor: 177.8 (W) x 118.5 (H) x 27.5 (D) mm

- 2 A/V inputs (line-in from rear pigtail and front mini-jack input) • Dual channel IR audio output transmitter for WH253H • Headrest mounting bracket included
- Minijack headphone output



VMA573
5.6"/16:9 HEADREST/
STAND-ALONE MONITOR

- Ultra compact housing for easy headrest installation • Outside dimension of bracket: 160.8 (W) x 111.8 (H) x 32.5 (D) mm • Dimension of monitor: 150 (W) x 101 (H) x 27 (D) mm

ACCESSORIES



VA700
VIDEO DISTRIBUTION
AMPLIFIER

- 1 composite video input • 7 buffered 75-ohm composite video outputs • Stable video signal for up to 7 LCD monitors



WH143H INFRARED WIRELESS SINGLE HEADPHONE

WH253H DUAL CHANNEL INFRARED WIRELESS SINGLE HEADPHONE

WH143H: Single headphone to be used in conjunction with one headrest monitor. Suitable for both adults and children. Auto power off when no signal received for 30 sec.
WH253H: Dual channel infrared wireless single headphone. To be used in conjunction with rear entertainment systems based on one overhead monitor or two headrest monitors. Suitable for adults and children. Auto power off function.



TTX752 / TTX7503z
CeNET ANALOGUE TV TUNER

- TTX752 for PAL, TTX7503z for PAL / SECAM • CeNET controlled • Diversity reception tuner system • A/V input with optional CCA389 cable • 1 Camera input • 2 Video outputs
- Dimensions: 178 (W) x 25 (H) x 100 (D) mm (TTX752)

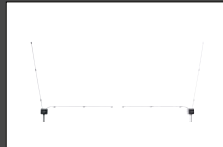


RCB199
OPTIONAL EXTERNAL
MICROPHONE

For VRX888RBT, MAX688RBT, VZ709E & VX709E



ZCP104
4-WAY WINDSCREEN
FILM TV ANTENNA



ZCA407
4-WAY ACTIVE WINDSCREEN
TV ANTENNA



ZCP100
MONO-POLE TV
ANTENNA

Bluetooth® technology enhances your motoring life

Get safer and a more amenity-rich communication from the music environment in your car. Clarion® Bluetooth technology will wirelessly connect your mobile phone to the main unit, enabling hands-free telephone conversation. Just speak with your hands firmly on and the other party will hear you. The voice of the person you are talking to is clearly reproduced via your car's speakers.

BLT583 CeNET BLUETOOTH INTERFACE ADAPTER

- Compatible with MAX983HD, DXZ788RUSB and DXZ588RUSB • Headset, hands-free profile and object push profile • Controls mobile phone book directly from touch screen: 500 persons, 5 numbers per person*
- Displays name / calling number / outgoing calls / missed calls* • Automatic receive function* • Redial function* • Voice recognition control* • On-screen information of battery level, signal strength*

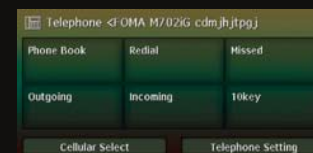
*Depends on mobile phone. For more compatibility information, please refer to the Clarion website.



COMPATIBILITY: Hard key control with DXZ788RUSB, DXZ588RUSB, & DUZ388RMP



COMPATIBILITY: Touch screen control with MAX983HD



AUX Bluetooth interface with hands-free and audio streaming capability

BLT373 BLUETOOTH AUDIO STREAMING AND HANDS-FREE INTERFACE FOR AUX INPUT

- Headset and hands-free profile (HSP and HFP)
- Bluetooth audio streaming and remote control capability (A2DP and AVRCP) • Built-in microphone for hands-free use



AUX Bluetooth audio/mobile phone transceiver BLT373 ready



NX509E
VZ509E
CZ209E
CZ109E
FZ409E

iPod and Clarion: the perfect combination for mobility, safety, integration and ultimate quality.



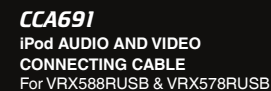
Direct iPod connection



CCA692
iPod AUDIO AND VIDEO
CONNECTING CABLE
For MAX983HD & MAX973HD



CCA673
iPod AUDIO AND VIDEO
CONNECTING CABLE
For MAX678RVD, VRX878RVD, MAX668RVD & VRX868RVD



CCA691
iPod AUDIO AND VIDEO
CONNECTING CABLE
For VRX588RUSB & VRX578RUSB



CCA723
iPod VIDEO CONNECTING
CABLE
For MAX688RBT, VRX888RBT, NX509E, VZ509E, VZ709E, VX709E, FZ709E & FZ409E

CeNET iPod interfaces

Interfaces to enjoy iPods with full operation



EA1276E
iPod CONNECTION INTERFACE
For '07 CeNET models to enjoy iPods with full operation.
DXZ778RUSB, DXZ578RUSB, DXZ378RMP, DXZ379RMP & CMD5

Interfaces to enjoy iPods with simple operation as with CD changers



EA1251E
iPod CONNECTION INTERFACE
For WXZ468RMP and all older CeNET models to enjoy iPods with simple operation as with CD changers.

ACCESSORIES

Cables



CCA389
AV ADAPTER CABLE, 2.5M
8-PIN ↔ RCA (1 VIDEO / 2 AUDIO)
For VRX848RVD, VRX743R & CeNET TV TUNER A/V INPUT



CCA519
MULTILINK Y-CABLE
For CeNET CHANGERS



CCA521
CeNET EXTENSION
CABLE, 0.6 M
CCA520
CeNET CABLE, 2.5 M



CAA380
SPEED PULSE GENERATOR
(For vehicles without speed pulse signal)



CAA397
6-DISC MAGAZINE
For DCZ628, DC628 & VCZ628



FM863
8-CHANNEL FM
MODULATOR



RCB187
INFRARED AV REMOTE
CONTROL
For MAX973HD & MAX983HD



RCB176
INFRARED REMOTE
CONTROL
For audio model



RCB147
INFRARED JOYSTICK
REMOTE CONTROL